

EXT: eGov API

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1 Introduction

1.1 What does it do?

In the digital age, enterprises and citizens should be able to ask for an administrative authorization or an official register extract electronically. Thanks to the eGov CH Reference project, they can access any useful information online 24/7 and order via internet or mobile phone. The administration better responds to current requirements and customer needs, helping to reduce bureaucracy and increasing the attractiveness of the Swiss economy.

The eGov API extension aims at providing an easy way to swiss public authorities to show and grant access to the different administrative services they offer through their TYPO3 website.

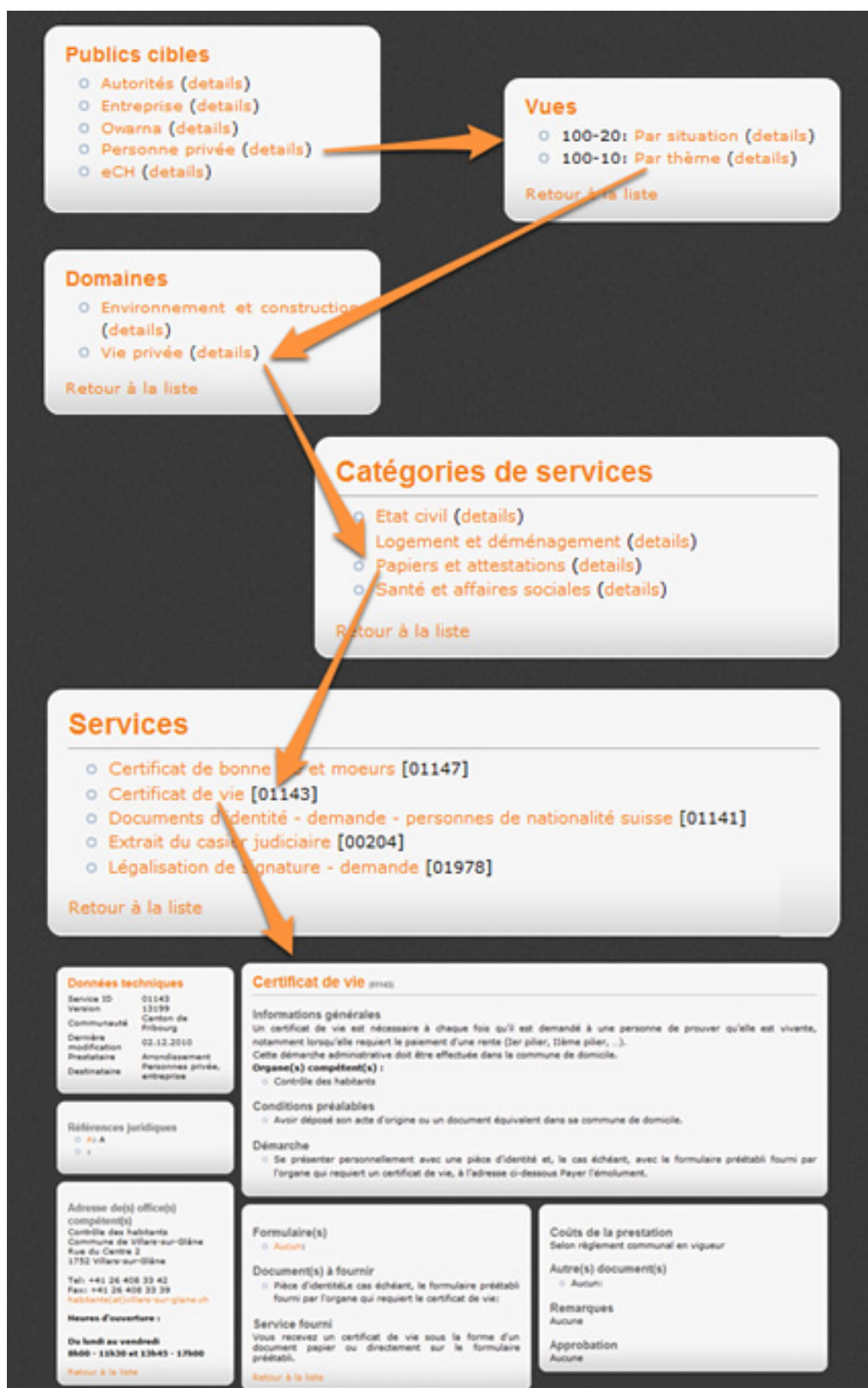
1.2 Sponsorship

This extension is the official implementation of the swiss eGov Remote API for TYPO3. It has been sponsored by the State Secretariat for Economic Affairs SECO which is the Confederation's competence centre for all core issues relating to economic policy. The SECO wanted to improve the online access to the administrative services they offer. This project has been developed and is being maintained by Causal Sàrl, in Fribourg.

Further information:

- Website of the SECO: <http://www.seco.admin.ch/>
- Reference eGov project's website: <http://www.cyberadmin.ch/>
- Causal Sàrl: <http://causal.ch/>

1.3 Screenshots



2 User manual

2.1 Plugin options

The plugin is split among a general configuration tab and then a tab for each and every level of the eGov API (Audience, View, Domain, Topic, Service). Finally a “Version” tab allows you to force a given version of a service to be used instead of the default one. “Other Settings” provides a few additional configuration options we will describe later on.

2.1.1 General

The screenshot shows the 'Selected Plugin' dropdown set to 'eGov API'. Below it, the 'Plugin Options' section has several tabs: 'General', 'Audience', 'View', 'Domain', 'Topic', 'Service', 'Version', and 'Other Settings'. The 'General' tab is active. It contains a section for 'Authorized levels' with 'Selected Items' (an empty box) and 'Available Items' (a list with 'Audience', 'View', 'Domain', 'Topic', and 'Service'). Below this is a 'Display Mode' dropdown set to 'Defined by TypeScript / Automatic'. At the bottom, there is a text field for 'Typoscript for this content element (plugin.egovapi_pi1.[your TS])' which is currently empty.

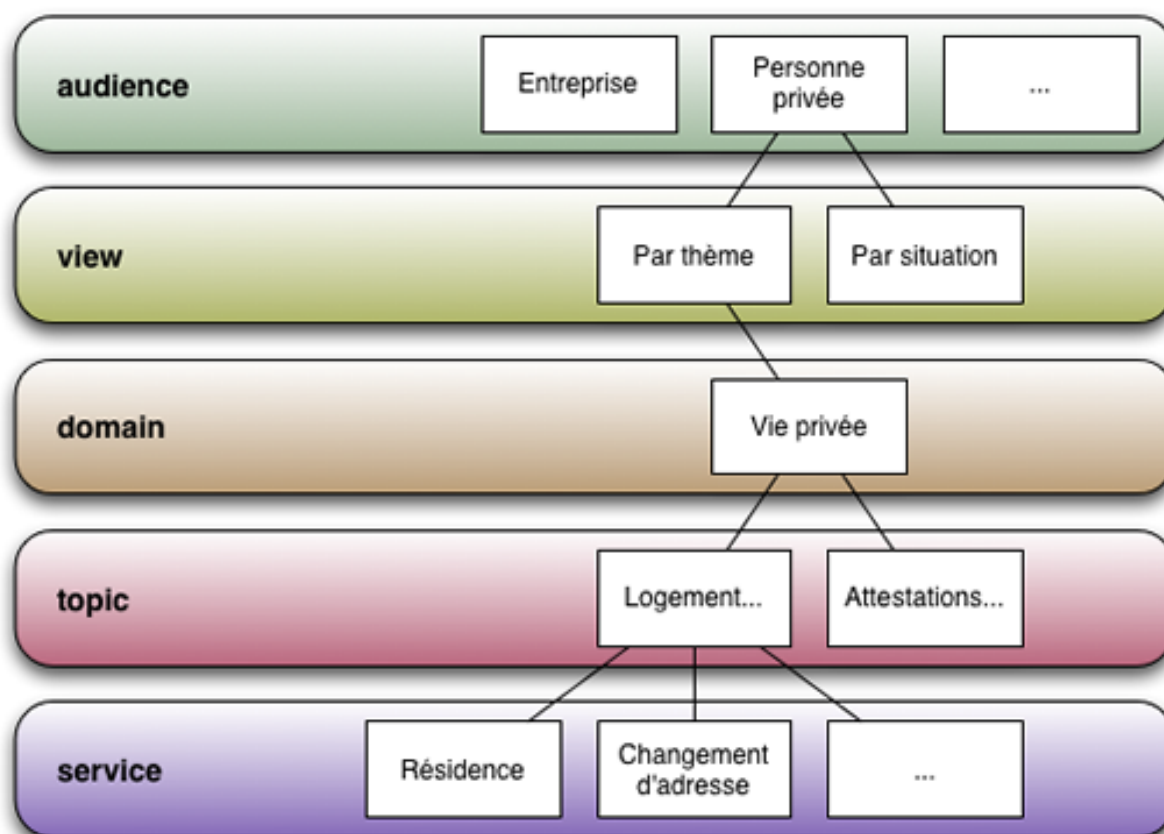
The rules are as follows:

- If a field is left empty, the corresponding TypeScript property is taken into account.
- If the corresponding TypeScript property is empty, there is no restriction. In the screenshot above, leaving “Authorized levels” empty will let you freely navigate from Audience to Service back and forth.

Backend administrators only: Field myTS allows you to override the TypeScript configuration after the merge of the FlexForm options. This is really the last chance to update the rendering configuration. Any configuration option may be overridden except the web service related properties (WSDL, cache lifetime, language, ...). A business processing makes use of it before the rendering takes place. We assume it is more than unlikely to be needed anyway.

2.1.2 Level hierarchy

Before actually describing the options of the level configuration tabs, it may help giving us an overview of the level hierarchy within the eGov web service:



2.1.3 Audience

The screenshot shows the 'Audience' configuration tab. At the top, there are tabs for 'General', 'Audience', 'View', 'Domain', 'Topic', 'Service', 'Version', and 'Other Settings'. Below the tabs, a yellow warning bar states: "Changes on this form will impact other configuration sheets. Please save configuration before moving on to next sheet."

The main content area is titled "Audiences to show (LIST) / Authorized audiences (SINGLE)". It features two lists:

- Selected Items:**
 - 200 - Entreprise
 - 100 - Personne privée
- Available Items:**
 - 300 - Autorités
 - 200 - Entreprise
 - 401 - Owarna
 - 100 - Personne privée
 - 400 - eCH

Between the lists are four small icons: a double-headed arrow, an up arrow, a down arrow, and an 'X' icon.

Below the lists, there are two text input fields with labels:

- "Override template to use for the list of audiences"
- "Override template to use for details of an audience"

Each input field has a small icon to its right.

By selecting items, you trim down the list of items being shown by the plugin and this additionally lets you manually order them.

Whenever you change the list of selected items in any of the Audience, View, Domain or Topic tab, you should save your plugin configuration as the sublevel list of items in the next tab will be filtered accordingly. E.g., in the screenshot above we selected "Entreprise" and "Personne privée" as audiences to be shown and we ordered them to show "Entreprise" and then "Personne privée". We should now save the plugin configuration before moving on to tab "View" where we

only will get views related either to “Entreprise” or to “Personne privée” in the available items.

2.1.4 View

General	Audience	View	Domain	Topic	Service	Version	Other Settings
---------	----------	------	--------	-------	---------	---------	----------------

Changes on this form will impact other configuration sheets. Please save configuration before moving on to next sheet.

Views to show (LIST) / Authorized views (SINGLE)

Selected Items:

- 100-10 - Par thème
- 200-20 - Par situation

Available Items:

- 200-20 - Par situation
- 100-20 - Par situation
- 200-10 - Par thème
- 100-10 - Par thème

Override template to use for the list of views

Override template to use for details of a view

2.1.5 Domain

General	Audience	View	Domain	Topic	Service	Version	Other Settings
---------	----------	------	--------	-------	---------	---------	----------------

Changes on this form will impact other configuration sheets. Please save configuration before moving on to next sheet.

Domains to show (LIST) / Authorized domains (SINGLE)

Selected Items:

Available Items:

- 100-10-001 - Vie privée

Blocks to show

Selected Items:

Available Items:

- 1. Level information
- 2. General information
- 3. News
- 4. Subdomains
- 5. Descriptors
- 6. Synonyms

Override template to use for the list of domains

Override template to use for details of a domain

Blocks to show: This section is used when showing the details of a single domain. It allows us to trim down the amount of information or to split them among multiple copies of the plugin on a detail page.

2.1.6 Topic

General	Audience	View	Domain	Topic	Service	Version	Other Settings
<i>Changes on this form will impact other configuration sheets. Please save configuration before moving on to next sheet.</i>							
Topics to show (LIST) / Authorized topics (SINGLE)							
Selected Items:				Available Items:			
<div></div>				<div>100-10-001-006 - Logement et déménagement 100-10-001-009 - Papiers et attestations</div>			
Blocks to show							
Selected Items:				Available Items:			
<div></div>				<div>1. Level information 2. General information 3. News 4. Subtopics 5. Descriptors 6. Synonyms</div>			
Override template to use for the list of topics							
<div></div>							
Override template to use for details of a topic							
<div></div>							

2.1.7 Service

General	Audience	View	Domain	Topic	Service	Version	Other Settings
<p>Services to show (LIST) / Authorized services (SINGLE)</p> <div> <div> <p>Selected Items:</p> <ul style="list-style-type: none"> 01170 - Attestation de résidence (établissement et séj 01172 - Commune de domicile - annonce d'arrivée - Pe 00204 - Extrait du casier judiciaire </div> <div> <p>Available Items:</p> <ul style="list-style-type: none"> 01170 - Attestation de résidence (établissement et séj 01168 - Changement d'adresse à l'intérieur de la comm 01172 - Commune de domicile - annonce d'arrivée - Pe 02061 - Commune de domicile - annonce d'arrivée - pe 01173 - Commune de domicile - annonce de départ 01141 - Documents d'identité - demande - personnes c 01176 - Déclaration de domicile 00204 - Extrait du casier judiciaire </div> </div>							
<p>Blocks to show</p> <div> <div> <p>Selected Items:</p> </div> <div> <p>Available Items:</p> <ul style="list-style-type: none"> 1. Level information 2. General information 3. Prerequisites 4. Procedure 5. Form(s) 6. Required document(s) 7. Service provided 8. Fee 9. Legal regulation 10. Other document(s) 11. Remarks 12. Approval 13. Contact </div> </div>							
<p>Override template to use for the list of services</p> <input type="text"/>							
<p>Override template to use for details of a service</p> <input type="text"/>							

2.1.8 Version

General	Audience	View	Domain	Topic	Service	Version	Other Settings
Advanced configuration of service versions to be used. Beware: invalid configuration is likely to yield empty services.							
Force service versions							
Service ID	Default version	Version to use	Description				
01170	13430	<input type="text"/>	Attestation de résidence (établissement et séjour)				
01172	13434	<input type="text"/>	Commune de domicile - annonce d'arrivée - Personnes de nationalité suisse				
00204	11781	<input type="text"/>	Extrait du casier judiciaire				

2.2 Domain Model

This section describes the eGov API domain model. The domain model may be accessed directly when using Fluid-based templates. If instead you use marker-based templates, only partial access to the domain model will be possible and you probably will have to implement one of the available hooks (see [Hooks](#) section in [Developer manual](#)) for more complex scenarios.

We only describe domain model for the eGov API levels (audience, view, domain, topic, service). Attributes for the blocks of information which are typically used for the details view of an entity should be analyzed with Fluid template examples or by looking at the classes within directory `Classes/Domain/Model/Blocks/` (e.g., using <http://api.causal.ch/egovapi/>).

2.2.1 Audience (tx_egovapi_domain_model_audience)

Property	Type
id	integer
author	string
creationDate	integer (timestamp)
lastModificationDate	integer (timestamp)
name	string
views	tx_egovapi_domain_model_view []

2.2.2 View (tx_egovapi_domain_model_view)

Property	Type
id	integer
author	string
creationDate	integer (timestamp)
lastModificationDate	integer (timestamp)
name	string
domains	tx_egovapi_domain_model_domain []
audience	tx_egovapi_domain_model_audience

Additional template values:

- **hasParent** (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.

2.2.3 Domain (tx_egovapi_domain_model_domain)

Property	Type
id	integer
author	string
creationDate	integer (timestamp)
lastModificationDate	integer (timestamp)
name	string
description	string
isParent	boolean
versionId	integer
versionName	string
communityId	string
release	integer
remarks	string
status	string
generalInformation	tx_egovapi_domain_model_block_generalInformation
news	tx_egovapi_domain_model_block_news
subdomains	tx_egovapi_domain_model_block_subdomains
descriptor	tx_egovapi_domain_model_block_descriptor
synonym	tx_egovapi_domain_model_synonym
topics	tx_egovapi_domain_model_topic []
view	tx_egovapi_domain_model_view

Additional template values:

- **hasParent** (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.
- **showLevelInformation** (boolean): set to TRUE if level information block may be shown, otherwise FALSE.
- **showGeneralInformation** (boolean): set to TRUE if general information block may be shown, otherwise FALSE.
- **showNews** (boolean): set to TRUE if news block may be shown, otherwise FALSE.
- **showSubdomains** (boolean): set to TRUE if subdomains block may be shown, otherwise FALSE.
- **showDescriptor** (boolean): set to TRUE if descriptor block may be shown, otherwise FALSE.
- **showSynonym** (boolean): set to TRUE if synonym block may be shown, otherwise FALSE.

2.2.4 Topic (tx_egovapi_domain_model_topic)

Property	Type
id	integer
author	string
creationDate	integer (timestamp)
lastModificationDate	integer (timestamp)
name	string
description	string
isParent	boolean
versionId	integer
versionName	string
communityId	string
release	integer
remarks	string
status	string
generalInformation	tx_egovapi_domain_model_block_generalInformation
descriptor	tx_egovapi_domain_model_block_descriptor
synonym	tx_egovapi_domain_model_synonym
services	tx_egovapi_domain_model_service []
domain	tx_egovapi_domain_model_domain

Additional template values:

- **hasParent** (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.
- **showLevelInformation** (boolean): set to TRUE if level information block may be shown, otherwise FALSE.
- **showGeneralInformation** (boolean): set to TRUE if general information block may be shown, otherwise FALSE.
- **showNews** (boolean): set to TRUE if news block may be shown, otherwise FALSE.
- **showSubtopics** (boolean): set to TRUE if subtopics block may be shown, otherwise FALSE.
- **showDescriptor** (boolean): set to TRUE if descriptor block may be shown, otherwise FALSE.
- **showSynonym** (boolean): set to TRUE if synonym block may be shown, otherwise FALSE.

2.2.5 Service (tx_egovapi_domain_model_service)

Property	Type
id	integer
author	string
creationDate	integer (timestamp)
lastModificationDate	integer (timestamp)
name	string
description	string
isParent	boolean
versionId	integer
versionName	string
communityId	string
release	integer
comments	string
provider	string
customer	string
type	string
action	string
status	string
generalInformation	tx_egovapi_domain_model_block_generalInformation
prerequisites	tx_egovapi_domain_model_block_prerequisites
procedure	tx_egovapi_domain_model_block_procedure
forms	tx_egovapi_domain_model_block_forms
documentsRequired	tx_egovapi_domain_model_block_documentsRequired
serviceProvided	tx_egovapi_domain_model_block_serviceProvided
fee	tx_egovapi_domain_model_block_fee
legalRegulation	tx_egovapi_domain_model_block_legalRegulation
documentsOther	tx_egovapi_domain_model_block_documentsOther
remarks	tx_egovapi_domain_model_block_remarks
approval	tx_egovapi_domain_model_block_approval
contact	tx_egovapi_domain_model_block_contact
topic	tx_egovapi_domain_model_topic

Additional template values:

- **hasParent** (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.
- **showLevelInformation** (boolean): set to TRUE if level information block may be shown, otherwise FALSE.
- **showGeneralInformation** (boolean): set to TRUE if general information block may be shown, otherwise FALSE.
- **showPrerequisites** (boolean): set to TRUE if prerequisites block may be shown, otherwise FALSE.
- **showProcedure** (boolean): set to TRUE if procedure block may be shown, otherwise FALSE.

- **showForms** (boolean): set to TRUE if forms block may be shown, otherwise FALSE.
- **showDocumentsRequired** (boolean): set to TRUE if documents required block may be shown, otherwise FALSE.
- **showServiceProvided** (boolean): set to TRUE if service provided block may be shown, otherwise FALSE.
- **showFee** (boolean): set to TRUE if fee block may be shown, otherwise FALSE.
- **showLegalRegulation** (boolean): set to TRUE if legal regulation block may be shown, otherwise FALSE.
- **showDocumentsOther** (boolean): set to TRUE if documents other block may be shown, otherwise FALSE.
- **showRemarks** (boolean): set to TRUE if remarks block may be shown, otherwise FALSE.
- **showApproval** (boolean): set to TRUE if approval block may be shown, otherwise FALSE.
- **showContact** (boolean): set to TRUE if contact block may be shown, otherwise FALSE.
- **showBackToList** (boolean): set to TRUE if back to list block may be shown, otherwise FALSE.

2.2.6 Service (tx_egovapi_domain_model_block_contact)

Property	Type
department	string
office	string
address	string
postalCase	string
postalCode	string
municipality	string
person	string
phone1	string
phone2	string
fax	string
email	string
publicKey	string
logo	string
banner	string
openingHours	string

2.3 Available markers and subparts

When using marker-based templates, domain model attributes are available as

###{ENTITY}_{ATTRIBUTE}###

The full list of available markers is as follows:

2.3.1 Audience

Markers

- AUDIENCE_ID
- AUDIENCE_NAME
- AUDIENCE_AUTHOR
- AUDIENCE_CREATION_DATE (formatted as dd.mm.yyyy)
- AUDIENCE_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)

Subparts

- AUDIENCE_LINK_VIEWS
- AUDIENCE_LINK_DETAIL

2.3.2 View

Markers

- VIEW_ID
- VIEW_NAME
- VIEW_AUTHOR
- VIEW_CREATION_DATE (formatted as dd.mm.yyyy)
- VIEW_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)

Subparts

- VIEW_LINK_DOMAINS
- VIEW_LINK_DETAIL
- HAS_PARENT
- VIEW_LINK_AUDIENCES
- VIEW_LINK_AUDIENCE

2.3.3 Domain

Markers

- DOMAIN_ID
- DOMAIN_NAME
- DOMAIN_DESCRIPTION
- DOMAIN_IS_PARENT
- DOMAIN_VERSION_ID
- DOMAIN_VERSION_NAME

- DOMAIN_COMMUNITY_ID
- DOMAIN_RELEASE
- DOMAIN_REMARKS
- DOMAIN_STATUS
- DOMAIN_AUTHOR
- DOMAIN_CREATION_DATE (formatted as dd.mm.yyyy)
- DOMAIN_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)
- DOMAIN_GENERAL_INFORMATION
- DOMAIN_NEWS
- DOMAIN_SUBDOMAINS
- DOMAIN_DESCRIPTION
- DOMAIN_SYNONYM

Subparts

- DOMAIN_LINK_TOPICS
- DOMAIN_LINK_DETAIL
- HAS_PARENT
- DOMAIN_LINK_VIEWS
- DOMAIN_LINK_VIEW
- SHOW_LEVEL_INFORMATION
- SHOW_GENERAL_INFORMATION
- SHOW_NEWS
- SHOW_SUBDOMAINS
- SHOW_DESCRIPTOR
- SHOW_SYNONYM

2.3.4 Topic

Markers

- TOPIC_ID
- TOPIC_NAME
- TOPIC_DESCRIPTION
- TOPIC_IS_PARENT
- TOPIC_VERSION_ID

- TOPIC_VERSION_NAME
- TOPIC_COMMUNITY_ID
- TOPIC_RELEASE
- TOPIC_REMARKS
- TOPIC_STATUS
- TOPIC_AUTHOR
- TOPIC_CREATION_DATE (formatted as dd.mm.yyyy)
- TOPIC_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)
- TOPIC_GENERAL_INFORMATION
- TOPIC_NEWS
- TOPIC_SUBTOPICS
- TOPIC_DESCRIPTOR
- TOPIC_SYNONYM

Subparts

- TOPIC_LINK_SERVICES
- TOPIC_LINK_DETAIL
- HAS_PARENT
- TOPIC_LINK_DOMAINS
- TOPIC_LINK_DOMAIN
- SHOW_LEVEL_INFORMATION
- SHOW_GENERAL_INFORMATION
- SHOW_NEWS
- SHOW_SUBTOPICS
- SHOW_DESCRIPTOR
- SHOW_SYNONYM

2.3.5 Service

Markers

- SERVICE_ID
- SERVICE_NAME
- SERVICE_DESCRIPTION
- SERVICE_VERSION_ID

- SERVICE_VERSION_NAME
- SERVICE_COMMUNITY_ID
- SERVICE_RELEASE
- SERVICE_COMMENTS
- SERVICE_PROVIDER
- SERVICE_CUSTOMER
- SERVICE_TYPE
- SERVICE_ACTION
- SERVICE_STATUS
- SERVICE_AUTHOR
- SERVICE_CREATION_DATE (formatted as dd.mm.yyyy)
- SERVICE_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)
- SERVICE_GENERAL_INFORMATION
- SERVICE_PREREQUISITES
- SERVICE_PROCEDURE
- SERVICE_FORMS
- SERVICE_DOCUMENTS_REQUIRED
- SERVICE_SERVICE_PROVIDED
- SERVICE_FEE
- SERVICE_LEGAL_REGULATION
- SERVICE_DOCUMENTS_OTHER
- SERVICE_REMARKS
- SERVICE_APPROVAL
- SERVICE_CONTACT
- SERVICE_CONTACT_DEPARTMENT
- SERVICE_CONTACT_OFFICE
- SERVICE_CONTACT_ADDRESS
- SERVICE_CONTACT_POSTAL_CASE
- SERVICE_CONTACT_POSTAL_CODE
- SERVICE_CONTACT_MUNICIPALITY
- SERVICE_CONTACT_PERSON
- SERVICE_CONTACT_PHONE1

- SERVICE_CONTACT_PHONE2
- SERVICE_CONTACT_FAX
- SERVICE_CONTACT_EMAIL
- SERVICE_CONTACT_EMAIL_LINK
- SERVICE_CONTACT_PUBLIC_KEY
- SERVICE_CONTACT_LOGO
- SERVICE_CONTACT_BANNER
- SERVICE_CONTACT_OPENING_HOURS
- VCARD_URL

Subparts

- SERVICE_LINK_DETAIL
- HAS_PARENT
- SERVICE_LINK_TOPICS
- SERVICE_LINK_TOPIC
- SERVICE_LINK_SERVICES
- SHOW_LEVEL_INFORMATION
- SHOW_GENERAL_INFORMATION
- SHOW_PREREQUISITES
- SHOW_PROCEDURE
- SHOW_FORMS
- SHOW_DOCUMENTS_REQUIRED
- SHOW_SERVICE_PROVIDED
- SHOW_FEE
- SHOW_LEGAL_REGULATION
- SHOW_DOCUMENTS_OTHER
- SHOW_REMARKS
- SHOW_APPROVAL
- SHOW_CONTACT
- SHOW_BACK_TO_LIST

3 Administration

This chapter describes how to manage the extension from a superuser point of view.

3.1 Installing the extension

There are a few steps necessary to install the eGov API extension. If you have installed other extensions in the past, you will run into little new here.

3.1.1 Install the extension from Extension Manager

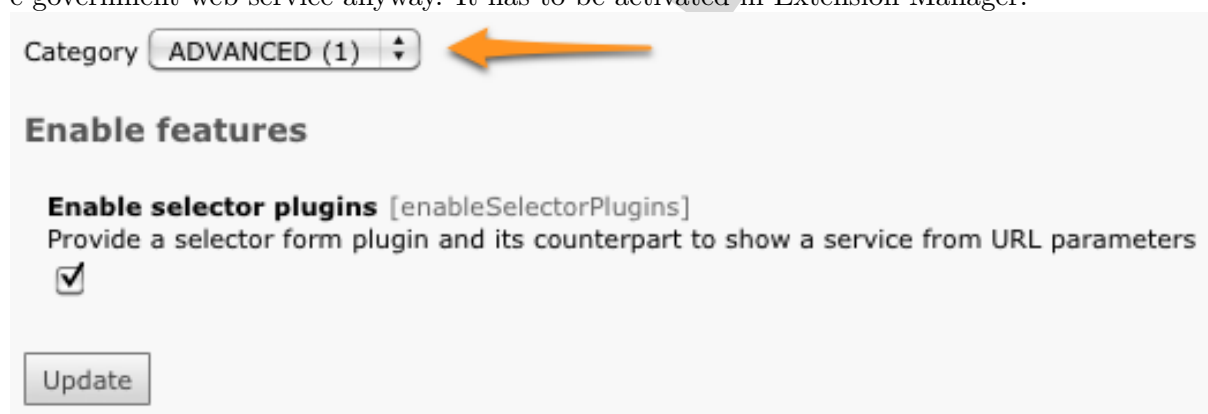
The eGov API extension can be installed through the typical TYPO3 installation process using the Extension Manager.

During the installation process, you may be invited to install additional suggested extensions that interact with the eGov API extension. These are all imply suggestions and can safely be ignored if you choose.

Note: If you plan to use Fluid as template engine, then you must install that system extension before installing the eGov API extension. The minimum required version of this system extension is 1.3.0 meaning it requires TYPO3 4.5 or above as Fluid template within the eGov API extension are using the FLUIDTEMPLATE content object which was introduced with TYPO3 4.5.

If you use TYPO3 4.5 or below, you have to create the two proposed caching tables. These tables (not needed anymore with TYPO3 4.6 and above) are being used by the TYPO3 caching framework if you choose to use a database backend (see below).

Since version 1.2.0 a selector plugin has been added, allowing you to show a form aimed at dynamically generating parametrized URIs, for non-TYPO3 websites willing to integrate e-government web service anyway. It has to be activated in Extension Manager:



3.1.2 Configure data caching

In order to prevent unnecessary traffic with the eGov servers hosting the web service, data caching should be configured. The extension makes use of TYPO3 caching framework. If you are using TYPO3 prior to 4.6, you have to activate the caching framework using either the Install Tool or by editing file `typo3conf/localconf.php` and adding following line:

```
$TYPO3_CONF_VARS['SYS']['useCachingFramework'] = 1;
```

Activating caching framework will ensure that the same information is not retrieved twice during a single request. However, once the request is over, the cache is flushed as it internally uses a TransientMemoryBackend.

In order to cache data for a longer period of time, you should provide a caching configuration for the eGov API extension. A typical configuration to cache data in the database is:

```
$TYPO3_CONF_VARS['SYS']['caching']['cacheConfigurations']['egovapi'] = array(
    'frontend' => 't3lib_cache_frontend_VariableFrontend',
```

```

        'backend' => 't3lib_cache_backend_DbBackend',
        'options' => array(
            'cacheTable' => 'tx_egovapi_cache',
            'tagsTable' => 'tx_egovapi_cache_tags',
        )
    );

```

Important note: The “cacheTable” and “tagsTable” parts are not relevant anymore if you use TYPO3 4.6 and above as the caching framework uses its own table structure (creation of the corresponding tables when installing the eGov API extension is thus useless as well). See the corresponding task on Forge if you want to learn more.

Please refer to the TYPO3 documentation for further configuration options.

3.1.3 Configure advanced data caching

Since web service version 2, the eGov API extension can take advantage of an operation returning recently updated services. This lets you configure an unlimited cache lifetime (see chapter [Configuration](#)) and invalidate cache entry as they are updated. This is done by regularly running (e.g., every 1-2 days) scheduler task “Latest changes in eGov API” for all communities you are retrieving data for.

3.1.4 Configure RealURL

If you are using RealURL, the good news is that the eGov API extension comes with a configuration for RealURL.

If your configuration is automatically generated (you have a `typo3conf/realurl_autoconf.php` file), delete it. It will be recreated by RealURL the next time you render your page and will integrate our postVarSets configuration.

If you manually tweaked the configuration (you have a `typo3conf/realurl_conf.php` file), here is the configuration we suggest:

```

'postVarSets' => array(
    '_DEFAULT' => array(
        'audience' => array(
            array(
                'GETvar' => 'tx_egovapi_pi1[audience]',
            ),
        ),
        'view' => array(
            array(
                'GETvar' => 'tx_egovapi_pi1[view]',
            ),
        ),
        'domain' => array(
            array(
                'GETvar' => 'tx_egovapi_pi1[domain]',
            ),
        ),
        'topic' => array(
            array(
                'GETvar' => 'tx_egovapi_pi1[topic]',
            ),
        ),
    ),
)

```

```

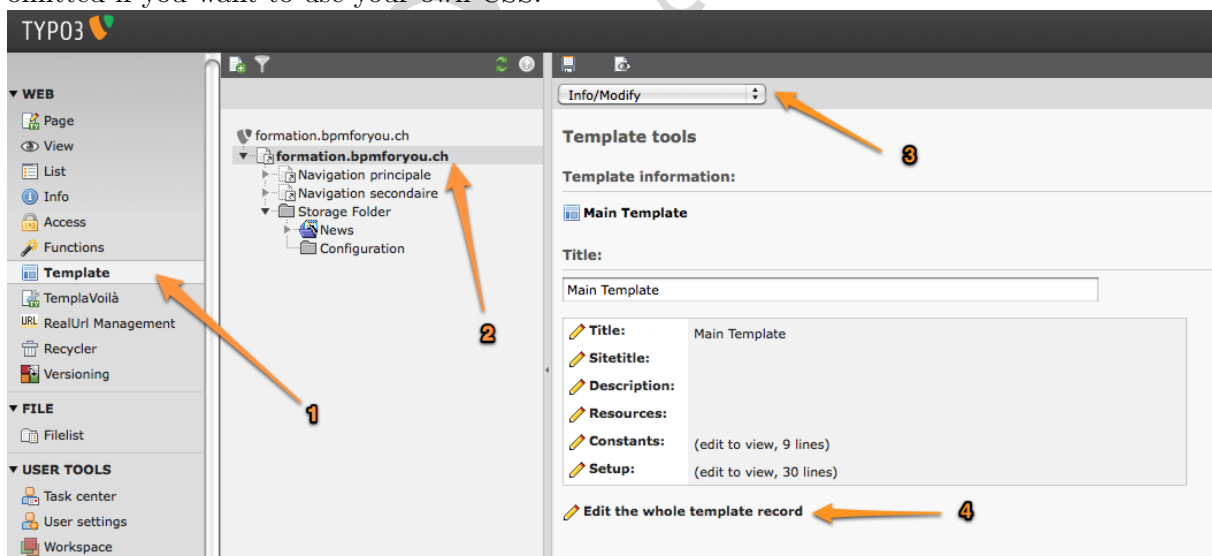
'service' => array(
    array(
        'GETvar' => 'tx_egovapi_pi1[service]',
    ),
),
'action' => array(
    array(
        'GETvar' => 'tx_egovapi_pi1[action]',
    )
),
'mode' => array(
    array(
        'GETvar' => 'tx_egovapi_pi1[mode]',
    )
),
),
),
),

```

3.2 TypeScript configuration

In order for this extension to be usable, make sure to include at least the static template “settings” from the eGov API extension. To do that, click on Web > Template in the left frame and then select the root page of the website. Your template will show up. Then click on link “Edit the whole template record”, open tab “Includes” and add static template from extension egovapi.

You are presented with two items in the list of available items. One is “eGov API settings (egovapi)”, the other is “eGov API CSS-styles (egovapi)”. You should at least add the settings. The CSS styles may serve as example for styling the extension’s output and should even be omitted if you want to use your own CSS.



General Options Includes Resources Access

Include Static Templates After Basis Templates:

☒

Include static (from extensions):

Selected Items:

- eGov API settings (egovapi)
- eGov API CSS-styles (egovapi)

Available Items:

- CSS Styled Content (css_styled_content)
- CSS Styled Content TYPO3 v3.8 (css_style)
- CSS Styled Content TYPO3 v3.9 (css_style)
- CSS Styled Content TYPO3 v4.2 (css_style)
- CSS Styled Content TYPO3 v4.3 (css_style)
- CSS Styled Content TYPO3 v4.4 (css_style)
- Clickenlarge Rendering (rtehtmlarea)
- Static Info tables (static_info_tables)
- eGov API settings (egovapi)
- eGov API CSS-styles (egovapi)

Save changes to your templates and close this form. Then open the Constant Editor from the drop-down menu and update global configuration to fit your needs:



Constant Editor

Template tools

Edit constants for template:

NEW SITE

Category: **PLUGIN.TX_EGOVAPI (16)**

API

WSDL for the eGov API [plugin.tx_egovapi.wsdl]
URL of the eGov API web service (inherits global setting if empty)
[Empty]

Service

Community [plugin.tx_egovapi.eCHcommunityID]
Canton Fribourg

Organization ID [plugin.tx_egovapi.organizationID]
Identifier of the organization (e.g., 99001=Swiss Confederation, 00619=Oberdiessbach, 02196=Fribourg)
02228

Enable features

Enable debugging information [plugin.tx_egovapi.enableDebug]
Provide additional information with error messages. 3rd party devLog extension may be required for full support
☐

Use Fluid as rendering engine [plugin.tx_egovapi.useFluid] ☒

There are many other options such as the language of the web service which should typically be related to the value of `config.language` in your setup.

If you are running a recent version of TYPO3 (4.5.0), you definitively should use Fluid as rendering engine. This requires system extension fluid to be loaded. Using Fluid will highly ease the way you prepare your templates and will let you have full control over the way web service data are rendered.

3.3 Selector Form Plugin

If you activated the selector form plugin within the Extension Manager, you will see an additional plugin available in the new content element wizard:

Please select which kind of page content you wish to create:

Typical page content

Special elements


Form elements

Flexible content

Plugins


General Plugin
 Select this element type to insert a plugin which cannot be found amongst the options below.


eGov API
 Adds a frontend plugin showing data from the eGov web service.


eGov API - Selector Form
 Adds a frontend plugin showing a selector form for the eGov web service.

The selector form plugin requires a dedicated static TypoScript, the “eGov API selector settings” and possibly the default CSS styles, as for the main plugin. Make sure to properly configure constant `plugin.tx_egovapi.targets.single.service` with the UID of the page containing the main plugin.

The plugin is shipped with a standard jQuery-based javascript using AJAX queries to refresh the form. A custom demo version has been integrated on <http://fr.causal.ch/realisations/api-e-government/demo/>.

Beware: The main plugin should use settings “eGov API selector settings” too and not the default ones.

3.3.1 Generating legacy parametrized URL

You may want to use the selector form plugin to generate parametrized URL compatible with the legacy service handler on www.cyberadmin.ch. Below is a configuration example for generating such URLs.

```
plugin.tx_egovapi_pi2.parametrizedUrl = TEXT
plugin.tx_egovapi_pi2.parametrizedUrl {
    typolink {
        parameter = http://www.cyberadmin.ch/eGovApi/
        parameter.wrap.cObject = COA
        parameter.wrap.cObject {
            1 = TEXT
            1.value = |

            10 = TEXT
            10.data = GP:language
            10.wrap = ?eCHlanguageID=|
            10.case = upper
            20 = TEXT
            20.data = GP:organization
            20.wrap = &eCHmunicipalityID=|
            30 = TEXT
            30.field = id
            30.wrap = &eCHserviceID=|
            40 = TEXT
            40.field = versionId
            40.wrap = &eCHserviceVersionID=|
            50 = TEXT
            50.data = GP:blocks
            50.wrap = &eCHserviceBlock=|
            60 = TEXT
```



```

        60.value = htmlpagecss
        60.wrap = &eCHapiFormat=|
        70 = TEXT
        70.value = utf-8
        70.wrap = &eCHapiEncode=|
    }
}
}

```

4 Configuration

4.1 plugin.tx_egovapi_pi1

4.2 plugin.tx_egovapi_pi1.displayBlocks

4.3 plugin.tx_egovapi_pi1.versions

4.4 plugin.tx_egovapi_pi1.targets

4.5 plugin.tx_egovapi_pi1.templates

4.6 plugin.tx_egovapi_pi2

5 Tutorial


This tutorial is best suited for day-to-day webmasters or editors having to integrate the eGov API within their website. It assumes an administrator already properly installed this extension (see chapter [Administration](#)). It is targeted at users and as such section “[Plugin options](#)” of chapter [User manual](#) is part of the basic know-how the webmaster or editor should have to be able to use this extension.

5.1 Use case

5.1.1 Description

You would like to show the list of service domains available for the audience “Personne privée” (100) in some part of your website.

5.1.2 Step-by-step explanation

1. Open Web > Page module and navigate within your website to the page where you would like to add the eGov API plugin.
2. Click on icon  to add a content element to your page
3. Move to section “Plugins” and select the eGov API plugin:

1: Select type of content element:

Please select which kind of page content you wish to create:

Typical page content Special elements Form elements Flexible content **Plugins**

General Plugin
Select this element type to insert a plugin which cannot be found amongst the options below.

eGov API
Adds a frontend plugin showing data from the eGov web service.

After having given a header to your content element as a best practice (possibly set its rendering Type to hidden), you should configure the eGov API plugin:

Edit Pagecontent "Module eGov" on page "Liste Public cible"

General **Plugin** Access

Plugin:
eGov API

Plugin Options:

General Audience View Domain Topic Service Version Other Settings

Authorized levels

Selected:

Domain

Items:

Audience
View
Domain
Topic
Service

Display Mode
Defined by TypoScript / Automatic

Typoscript for this content element (plugin.egovapi_pi1.[your TS])

1. Move to the "Plugin" tab to access plugin's configuration options
2. Select "General" option tab
3. Authorize level "Domain" to be shown. As this is the only selected level, it will be used as entry point for the plugin and will not allow navigation to other levels. If you need this, you may either add other authorized levels after the entry point level or

configure redirect pages containing plugins for the other levels on “Other Settings” option tab.

Last step is to configure the plugin in order to only show the audience “Personne privée”:

1. Select “Audience” option tab
2. Select audience “Personne privée”.

That’s it! If you show your page, you should have a list of domains related to the audience “Personne privée”:

Domains

- [Vie privée \(details\)](#)

6 Developer manual

This chapter is really targeted at extension developers. Most TYPO3 integrators should never have the need to go that deep in order for them to configure the eGov API extension to fit their integration needs. If however you encounter some limitation you cannot solve using TypoScript configuration, you may want to read the following sections to learn how to take more control.

6.1 Hooks

Some hooks have been integrated into the eGov API extension. They are primarily targeted at letting you post-process the subparts and markers prior to the actual rendering process, when using marker-based templates or to post-process the AJAX returned data. Hooks have not been used for Fluid-based templates as you may achieve the same goal with TypoScript configuration or use of ViewHelpers.

Following hooks are available:

- Final post-processing:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['renderHook']
```

- Post-processing of audience subparts and markers:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareAudienceHook']
```

- Post-processing of view subparts and markers:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareViewHook']
```

- Post-processing of domain subparts and markers:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareDomainHook']
```

- Post-processing of topic subparts and markers:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareTopicHook']
```

- Post-processing of service subparts and markers:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareServiceHook']
```

- Post-processing of AJAX returned data:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['ajaxHook']
```

6.2 API documentation

The latest API documentation may be manually generated using doxygen configuration file `doc/doxygen.conf`.

Alternatively, you may access it from <http://api.causal.ch/egovapi/>.

6.3 eGov web service

The eGov web service is documented by the corresponding WSDL.

When accessing this WSDL endpoint, XML schemas are defined as namespaces. The underlying XSD files may be retrieved by prefixing the namespace by <http://ref.cyberadmin.ch/WS20/ServiceContract/>. E.g., the schema of “dataCommonBlocks” may be accessed with <http://ref.cyberadmin.ch/WS20/Service/Contract/MessageContract/DataContract/CommonBlocks.xsd>.

7 Known problems

Please use the extension’s bug tracker on Forge to report bugs: <http://forge.typo3.org/projects/extension-egovapi/issues>.

8 To-Do list

Please use the extension's bug tracker on Forge to propose new features: <http://forge.typo3.org/projects/extension-egovapi/issues>.

9 ChangeLog

The following is a very high level overview of the changes in this extension. For more details, see the ChangeLog file included with the extension or [read it online](#).

Version	Changes
1.4.0	<ul style="list-style-type: none"> • Added support for both the existing web service and its upcoming new version • Tested with TYPO3 4.6
1.3.0	<ul style="list-style-type: none"> • Added microformat markers (hCard) for the service's office • Services are grouped by provider for the selector form plugin
1.2.0	<ul style="list-style-type: none"> • Selector form plugin added
1.1.0	<ul style="list-style-type: none"> • Completed German translation
1.0.0	<ul style="list-style-type: none"> • Stable release • Updated documentation with additional screenshots • Updated templates with additional CSS classes
0.9.0	<ul style="list-style-type: none"> • Further documentation
0.8.0	<ul style="list-style-type: none"> • First release on TER